iScan™ VP20

High Definition Video Processor

DVDO Powered by ABT

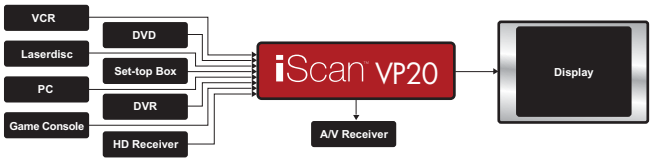
The iScan™ VP20 is a high-definition video processor and A/V hub that converts standard or high definition from your DVD player, VCR, PVR, HD set top box, game console, or PC to any of the predefined output resolutions between 480p and 1080p, including popular HDTV resolutions such as 720p and 1080i.

The VP20 serves as your complete A/V hub, providing simultaneous audio/video switching with "Multi-Rez in - One Rez out" video up/down/cross-conversion with one digital HDMI connection to your display or projector.

- ABT's Precision Video Scaling II™ technology by ABT – 10-bit Scaling, Enhanced Sharpness Control
- Motion and source adaptive video deinterlacing for NTSC (3:2 and 2:2 pulldown; video) and PAL/SECAM (2:2 pulldown; video) sources
- Analog HD Transcoding and Processing
- Flexible Input and Output Aspect Ratio Control
- ABT's Rightrate™ – High-Performance Framerate Conversion NTSC↔PAL
- ABT's AutoVFR™ – Intelligent Component Video Inputs with Automatic Video Format Routing
- Advanced Source Transition Management provides seamless transitions between source types
- ABT's AutoCUE-C™ – Automatic Chroma Upsampling Error detection and correction
- Full-frame Timebase Correction
- High performance, multi-standard video decoder (10-bit: 480i/576i; 12-bit: 480p/576p/720p/1080i)
- High-quality super-adaptive comb filter with 2D Y/C separation
- Flexible Digital and Analog Audio switching and routing – four digital audio inputs and one analog audio input with two digital audio outputs (both active)
- ABT's Precision A/V Lipsync™ intelligent digital audio delay technology to match Audio and Video timing
- Accepts VRS Precision Deinterlacing Card (optional)

Video Output Resolution

- Predefined output resolutions for Plasma, DLP, LCD, LCOS, and CRT-based displays
  - Digital Television Standards – 480p (720x480), 576p (720x576), 720p (1280x720), 1080i (1920x1080), 1080p (1920x1080)
  - PC resolutions – VGA (640x480), SVGA (800x600), XGA (1024x768)
  - Other presets - 852x480, 1024x576,1024x1024 (ALIS), 1280x768, 1366x768, 1360x768



iScan™ VP20 High Definition Video Processor

Rear panel of the iScan™ VP20

Technical Specifications

Inputs

Nine Video Inputs Available

- Two Composite (NTSC/PAL/SECAM)
- Two S-Video (NTSC/PAL/SECAM)
- Two Component (YPbPr or RGB/S) processes 480i/p, 576i/p, 720p, 1080i
- Three HDMI processes 480i/p, 576 i/p, 720p, 1080i, VGA-XGA@60Hz

Eight Audio Inputs

- Three HDMI
- Two Coaxial Digital
- Two Optical Digital
- One Analog Pair (L/R)

Output

One Digital Audio/Video Output

- Using HDMI (High Definition Multimedia Interface) connector
- Configurable for YCbCr or RGB
- Also carries digital audio

Two Digital Audio Outputs

- One Coaxial Digital
- One Optical Digital

Controls

Front Panel

- Infrared remote control with direct access codes or manual controls on front panel
- Functions accessible via either On Screen Display (OSD) or 2 line, 20 character front-panel LED display
- RS232 port for software downloads and automation.
- Fully programmable controls for each separate video input with non-volatile memories:
  - Automatic input source detection & input priority selection
  - Input aspect ratio select: 4:3 fullframe, 4:3 letterbox, 16:9 fullframe or custom input aspect ratio
  - Output aspect ratio select: 4:3, 16:9
  - Flexible horizontal and vertical Zooming & Panning controls
  - Picture controls with memory for each input: Brightness, Contrast, Saturation, Hue, Y/C Delay, Sharpness
- Output Controls: Format/Resolution, Aspect Ratio, Sync Type, Colorspace (RGB or YCbCr), Frame Lock
- 13 Built-in test patterns for ease of set up

Infrared Remote Control with Discrete codes

Miscellaneous

Power

- Universal AC mains input: 100 – 240 VAC @ 50-60 Hz
- Consumption <30W
- Sleep Mode – automatic 30 second timeout indicated by power indicator color change

Physical Dimensions

- 10.4”x17”x2.2” (26.3cmx43.4cmx5.5cm) with feet
- 10.4”x17”x1.8” (26.3cmx43.4cmx4.6cm) without feet
- Standard 19” 1U 1.75” Rackmount available

Weight

- Shipping – 10.5 lb (4.8 kg)
- Unit without Power Supply – 6.4 lb (2.9 kg)
- SKU number MM604
- Optional Rackmount Bracket – 17-0307-05
- Optional VRS Precision Deinterlacing Daughtercard

Optional Silver Face-Plate Available

DVDO Powered by ABT

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